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CLAIMS

[Claim(s)]

[Claim 1]A disk which contained a part only for reading which reads information written in beforehand, and an access part which has the access information to external media.

External media by which access directions are carried out at said disk.

An information reproducing device which inputs information from said disk and inputs information from external media, and image display and a speech output unit as for which image display and voice response carry out text, speech information, and picture information from said information reproducing device.

Are data synchronization playback equipment provided with the above, and an internal storage part in said information reproducing device is made to memorize information from said external media, Based on timing data and a layout signal which are memorized by said disk, synchronize external-media information in said internal storage part with said disk information, and it is made to compound, Said disk information is used as basic data, synchronous reproduction of both these data is carried out by using said external-media information as additional data, and it is characterized by image display and carrying out voice response.

[Claim 2]A disk which contained a part only for reading which reads information written in beforehand, a write-in part which can write in information newly, and an access part which has the access information to external media.

External media by which access directions are carried out at said disk.

An information reproducing device which inputs information from said disk and inputs information from external media, and image display and a speech output unit as for which image display and voice response carry out text, speech information, and picture information from said information reproducing device.

Are data synchronization playback equipment provided with the above, and a write-in part of said disk is made to memorize information from said external media, Based on timing data and a layout signal which are memorized by said disk, synchronize said external-media information on write-in circles with said disk information, and it is made to compound, Said disk information is used as basic data, synchronous reproduction of both these data is carried out by using said external-media information as additional data, and it is characterized by image display and carrying out voice response.

[Claim 3]In the data synchronization playback equipment according to claim 1 or 2, the menu indication of the update possible information from external media is carried out to an image display device based on access information of said disk, Data synchronization playback equipment using the latest information as said additional data by searching and selecting the proper latest information from desired information of said menu indication.

[Claim 4]In the data synchronization playback equipment according to claim 1 or 2, a format of

update information from external media based on access information of said disk is set as said internal storage part or a write-in part of said disk, Data synchronization playback equipment carrying out synchronous reproduction of the latest information which saves update information for every [from said external media] fixed time in said internal storage part or a write-in part of said disk, and carries out a reorganization collection, and by which formatting was carried out to basic data from said disk for every fixed time.

[Claim 5]In the data synchronization playback equipment according to claim 1 or 2, from external media to additional information based on access information of said disk. Add to text, speech information, and picture information, include timing data information and by setting out of said timing data information. Data synchronization playback equipment carrying out synchronous composition at basic data from said disk, and carrying out synchronous reproduction of the additional information according to synchronous timing to which a user wants to view and listen.

[Claim 6]Data synchronization playback equipment dividing and carrying out synchronous reproduction of basic data from said disk, and the additional data from said external media all over 1 screen of said image display device in the data synchronization playback equipment according to claim 1 or 2.

[Claim 7]Data synchronization playback equipment, wherein image display of said additional data chooses a proper part image of the whole images from said external media in the data synchronization playback equipment according to claim 6.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention]It is related with the art which carries out synchronous composition of the data from other external memory media, and is reproduced by using the data stored in the external memory media called INTADISUKU (Inter Disk) as basic data.

[0002]

[Description of the Prior Art]Although disks, such as CD-ROM, CD for music, CD-G, Video-CD, or DVD, are used as external memory media now, Each of these disks plays the data beforehand stored in each disk, and there is no function to update the data stored beforehand to the newest data.

[0003]On the other hand, Inter Disk (INTADISUKU is called hereafter), Picture information, text, and speech information are beforehand stored in the inside of the disk, and the information which can access the homepage on the Internet relevant to the stored information is built in. That is, INTADISUKU is a disk which is going to unite the information in a disk, and the information on the Internet.

[0004]The rough flow of the information in the case of playing INTADISUKU is shown in drawing 11. In here, INTADISUKU and 2 1 The sources of information on the Internet, 3 -- the playback equipment of INTADISUKU, and 4 -- a time-control part and 5 -- an external storage regenerating section and 6 -- an external storage control section and 7 -- a communication control part and 8 -- a voice control part and 9, as for a display control part and 10, a treating part and 11 express a sound reproduction device, 12 expresses a display, and 13 expresses the communication line, respectively.

[0005]If the external storage regenerating section 5 is loaded with INTADISUKU 1 and it is driven, it can view and listen to the picture information, the text, and speech information which were beforehand stored in INTADISUKU 1 with the display 11 and the sound reproduction device 12. Based on the access information of the Internet memorized by INTADISUKU 1, the homepage which was connected to the Internet and specified as it via the communication line 13 can be accessed, and the whole image of the accessed homepage can be displayed on the display 11 of the playback equipment 3. If there is necessity in that case, the hierarchized information can also be accessed and the whole image can be displayed on the display 11.

[0006]In this case, if the latest information is published by the homepage of the Internet, in connection with playing INTADISUKU which stored the information on the past at the time of disk manufacture, it can view from the Internet and listen to the latest information by the access information of that disk.

[0007]

[Problem(s) to be Solved by the Invention]According to said conventional technology, the rudimentary knowledge relevant to the titles ("a trip of Kyoto", "Chinese food", etc.) of INTADISUKU, the data relevant to said title in a disk manufacture time, etc. are made into a

constant, Although INTADISUKU can be made to be able to memorize, Internet information can be used about the latest information about said knowledge and data and it is very useful for a user, Proper Internet information can be accessed in this conventional technology, that whole image is only displayed on a display, and processing and change are not in the built-in information on INTADISUKU as external memory media itself.

[0008]If it puts in another way, the information built in INTADISUKU will become old contents gradually in connection with the passage of time, Even if the latest information is acquirable via the Internet, it is only only displayed acquisition, and this latest information is incorporated into INTADISUKU, that built-in information is processed or it is not changed into a display. Therefore, the latest information is not acquired, even if other playback equipment which is not connected with a communication line is loaded with INTADISUKU and it reproduces.

[0009]Under the present circumstances, since the built-in information on INTADISUKU is information written in at the time of the manufacture, when a user is going to load playback equipment with INTADISUKU and view and listen to it, the information written in since time had passed may be old information. Since a limit is among the capacity which can be written in INTADISUKU, detailed information cannot be written in.

[0010]It is only displaying the whole image on a display, and a televiewer is going to select the proper part image of the whole image, and take in the information through the Internet.

[0011]The purpose of this invention takes out a required part image suitably as information from the Internet, tends to carry out synchronous composition and tends to display the information on this part image and INTADISUKU by which memory immobilization was carried out.

[0012]By carrying out synchronous reproduction of the additional information from the Internet to the constant of INTADISUKU, on 1 screen of a display, a user is going to make it reproduce simultaneously, and view and listen to information to view and listen.

[0013]It is going to make the internal storage part of playback equipment, or the new data writing part of INTADISUKU memorize the new additional data suitably taken out from Internet information.

[0014]

[Means for Solving the Problem]In order to solve said SUBJECT, this invention mainly adopts the following composition.

[0015]A disk which contained a part only for reading which reads information written in beforehand, and an access part which has the access information to external media, An information reproducing device which inputs information from said disk into said disk as external media by which access directions are carried out, and inputs information from external media, Text, speech information, and picture information from said information reproducing device Image display, and image display and a speech output unit which carry out voice response, Are ***** data synchronization playback equipment and an internal storage part in said information reproducing device is made to memorize information from said external media, Based on timing data and a layout signal which are memorized by said disk, synchronize external-media information in said internal storage part with said disk information, and it is made to compound, Said disk information is used as basic data, synchronous reproduction of both these data is carried out by using said external-media information as additional data, and they are image display and data synchronization playback equipment which carries out voice response.

[0016]A disk which contained a part only for reading which reads information written in beforehand, a write-in part which can write in information newly, and an access part which has the access information to external media, An information reproducing device which inputs information from said disk into said disk as external media by which access directions are carried out, and inputs information from external media, Text, speech information, and picture information from said information reproducing device Image display, and image display and a speech output unit which carry out voice response, Are ***** data synchronization playback equipment and a write-in part of said disk is made to memorize information from said external media, Based on

timing data and a layout signal which are memorized by said disk, synchronize said external-media information on write-in circles with said disk information, and it is made to compound, Said disk information is used as basic data, synchronous reproduction of both these data is carried out by using said external-media information as additional data, and they are image display and data synchronization playback equipment which carries out voice response.

[0017]

[Embodiment of the Invention] Hereafter, the embodiment of this invention is described using a drawing. The fundamental composition about the method of synchronizing the information from INTADISUKU and the information from the Internet, and reproducing is shown in drawing 1 and drawing 2.

[0018] In here, INTADISUKU and 2 1 The sources of information on the Internet, 3 the playback equipment of INTADISUKU, and 4 a time-control part and 5 An external storage regenerating section, 6, a communication control part and 8, a voice control part and 9, a treating part and 11 express a sound reproduction device, 12 expresses a display, 13 expresses the communication line as for a display control part and 10, respectively, and these of an external storage control section and 7 are the components with which conventional technology was equipped.

[0019] A synchronous synchronizer and 15 express a retrieval part, 16 expresses a storage control part, 14 expresses an internal storage part 17, respectively, and these components constitute some playback equipment 3. While the information which consists of picture information, text, and speech information is stored in INTADISUKU 1 as basic data, accessible information is also stored in the homepage of the Internet so that the information relevant to this basic data can be obtained via the Internet.

[0020] As an input of the treating part 10 of the playback equipment 3, the information from INTADISUKU 1 and the information from the Internet based on the demand from INTADISUKU 1 are inputted out of the time information from the time-control part 4. The additional data from the internal storage part 17 in which the synchronous synchronizer 14 saves the information on the sources of information 2 of the Internet, Carry out synchronous composition of the basic data from INTADISUKU 1 by the treating part 10, and timing data and a layout signal are taken out from INTADISUKU 1 in that case, The display timing of basic data and additional data is doubled, and additional data is displayed on the proper information-display part in basic data. The program which can be synchronized with other data is included in the basic data of INTADISUKU 1.

[0021] The retrieval part 15 has the function to retrieve the information which can be added to the basic data stored in INTADISUKU 1. For example, when INTADISUKU which has the title a "pro-baseball player" is used, If screen selection of needing additional information by the display screen from INTADISUKU is made when it is going to display this in quest of a specific player's newest batting average in a specific team from the Internet, Since information, including a team name, a player name, a blow results list, etc., is acquired and a screen display of these is carried out to a display as additional information from the Internet, A specific item is chosen and searched out of these, the proper homepage of the Internet is accessed, and the batting average of the specific player of a specific team is acquired. Synchronous composition is carried out at basic data, and this acquired data is displayed. The additional information from the Internet may be made to be able to save at the internal storage part 17 of the playback equipment 3, and can also be saved at the new data writing part of INTADISUKU 1. If the additional data which becomes INTADISUKU from latest data is saved, this INTADISUKU can display the latest information by playing this disk with playback equipment and performing a synchronous compositing process, without accessing the Internet again.

[0022] Although explained to said INTADISUKU as a new data writing part as a method where additional information is made to save, Although a graphic display is not carried out, if the information on INTADISUKU receives reproductive directions, The information on called INTADISUKU is sent to the treating part 10, the additional data and the synchronous compositing process from the Internet are made, and said information by which the synchronous compositing

process was carried out to the difference space whose INTADISUKU has been played [said] for example, It may decide to carry out overwrite and to memorize (in this case, the field of the reproduction information in INTADISUKU is a field [it is not read-only and] which can also be written in).

[0023]If it does so, even if the new data writing part does not exist in INTADISUKU under reproduction, in said preserving method, It can view and listen to information including said additional data, without processing synchronous composition with playback equipment, if the information by which the synchronous compositing process was carried out can be memorized and this INTADISUKU is played.

[0024]Although not illustrated as a method where the information by which the synchronous compositing process was carried out is made to save, in ***** shown by drawing 6, it is possible by making it make it choose whether it memorizes to the internal storage part 17, or it memorizes to INTADISUKU.

[0025]what the whole image of the homepage of the Internet can be incorporated and can be used as the overview of a display for this as additional information -- in addition, this whole image -- some displays -- it can also be considered as an image (other partial images are the things from the basic data from INTADISUKU). That is, on 1 screen of a display, it can reproduce simultaneously, and can view and listen to additional data and basic data.

[0026]By analyzing HTML (communications protocol of the Internet) in the additional data through the Internet by the synchronous synchronizer 14 and the treating part 10 of the playback equipment 3, Only the required part image of the whole images is selected, synchronous composition can be carried out and only this part image can also be displayed. In this case, a part of picture information, text, and each speech information can be taken out.

[0027]The fundamental flow which carries out synchronous reproduction of the data from the Internet to INTADISUKU is shown in drawing 2. For making it display also including the additional information from the Internet, outside it plays INTADISUKU and can display the information only from this disk, it connects at the Internet, Proper data is chosen out of the data of choice by which the menu indication was carried out, and it downloads to playback equipment, and synchronous composition can be carried out and this and the basic data from INTADISUKU can be displayed.

[0028]Next, the concrete method of the synchronous reproduction of the data related without the classification of a disk, for example, a movie disk, a travel advisory disk, a company and a stock price disk, a cooking information disk, etc. is explained in order.

[0029]When INTADISUKU is a disk about a movie, the example is shown in drawing 3 and drawing 4. In an image common to every country in the world, such as a movie, when language differs from language, it becomes difficult to understand image contents. Since the disk user in which country can also do an understanding of the contents of a disk if a character and a sound express the language of each country, and language, it is possible to build all of the sound of every country in the world, and a character in a disk, but such a built-in method is not efficient, considering the storage capacity of a disk. Then, additional information which builds only the image of the movie which is common contents in INTADISUKU, and a user can understand, such as a sound and a character, What is necessary is to acquire suitably via the Internet, respectively, to synchronize this acquired sound, a character, and the built-in image of INTADISUKU in playback equipment, to compound, and just to make it display on a display and a sound reproduction device.

[0030]According to drawing 3, the information which can be added to the movie image of INTADISUKU, As text, a title (for example, Japanese, English, French, Chinese) and description. There are (for example, tale description and performer description), there are a stand-in (for example, Japanese, English, French, Chinese) and BGM (for example, ROCK, POPS, the techno, a classic, enka) as speech information, and there is disabled person correspondence (for example, Braille points, sign language) as picture information.

[0031]In [since the above information which can be added is displayed on a display] a retrieval part, Proper information is retrieved from those additional information, said proper information is acquired from the Internet as additional data via the communications department, synchronous composition is carried out and the simultaneous display of this additional data and the built-in image of INTADISUKU is carried out.

[0032]In drawing 4, the display screen corresponding to the flow chart and flow of the synchronous reproduction of the additional data through the Internet is illustrated. If the playback equipment which is displaying the usual broadcast screen A on a display is loaded with a movie disk and INTADISUKU is played, the contents screen B of a disk will be displayed on a display, and it will indicate that additional information A is possible. When additional information is chosen, playback equipment is connected to the Internet and the detailed contents of additional information are ***** (ed) by the display.

[0033]The contents of the menu indication are the voice data of the word of each country, alphabetic data of the title of each country, disabled person correspondence, and BGM. Desired information U is suitably chosen from these menu indications, and each data is downloaded to playback equipment.

[0034]The movie disk was played, and the synchronous synchronizer of playback equipment read timing data and a layout signal from this disk, synchronized download data with the basic data of the disk, compounded, and has obtained the reproducing output.

[0035]Synchronous reproduction of the additional information from the Internet can be carried out to the information from INTADISUKU as mentioned above. Therefore, synchronous reproduction of the Japanese subtitle can be downloaded and carried out to the movie disk which he has bought overseas. After purchasing a movie disk with a Japanese dubbed version, synchronous reproduction can also be carried out to also admire original speech and the Japanese subtitle version so that voice data and alphabetic data may be downloaded from the Internet and may be replaced with said Japanese dubbed version.

[0036]Next, when INTADISUKU is a disk about a travel advisory, the example is shown in drawing 5 and drawing 6. A travel, leisure, and the drive information need to look at a magazine and the information on broadcast to acquire the information on the travel destination which the situation changed and left in a season, climate, time, etc., respectively. However, the magazine can acquire only the information to which broadcast was also restricted instead of the latest information.

[0037]Then, the information on the map which is common contents, tourist resort guidance, etc. is built in INTADISUKU, The newest additional information, such as stage information, event information, etc. which a user needs, is acquired via the Internet, and it becomes possible to view and listen to the latest information which the user itself needs simultaneously with information with built-in INTADISUKU by carrying out synchronous reproduction to the built-in information on INTADISUKU. The built-in information on INTADISUKU can also be updated and displayed on the latest information from the Internet.

[0038]If an indication which shows that update information is possible will be given if a travel advisory disk is played according to drawing 5, and this is chosen, the menu indication of the contents of update possible information will be carried out. There are the present climatological information, event information, a confusion situation, reservation status of accommodations, additional facility information, etc. in update possible information as text, and there is a sound of a music event as speech information, and as picture information, There are a photograph of the present season which shows the state of autumnal leaves or snow cover, and a confusion situation of the present road, a proper thing can be searched and selected out of these characters, a sound, and picture information, and it can be considered as update information. In drawing 6, the display screen corresponding to the flow chart and flow of the synchronous reproduction of the newest update information through the Internet is illustrated. If playback equipment is loaded with INTADISUKU and it reproduces, since the notice A of update possible information will be given to a display, if this is chosen, playback equipment will be connected to

the Internet and the menu of update information, i.e., the character of drawing 5, a sound, and picture information I will be displayed.

[0039]Desired information U is searched and selected from menus, and the information U is downloaded to playback equipment. Thus, it replaces with notifying update possible information one by one, and choosing desired information, and the flow which has rewritten update possible information altogether automatically can also be chosen, without giving said notice.

[0040]The update information downloaded in the internal storage part of playback equipment or the new data write-in part of INTADISUKU is synchronized with the information from INTADISUKU based on the timing data and the layout signal which were read from INTADISUKU, and it reproduces. For example, as shown in drawing 5, the thing which update the scene photograph of last year of the travel advisories of A area, and displays a scene photograph this year and to do can be performed.

[0041]As mentioned above, it tends to become difficult for the built-in information in which purchased INTADISUKU was stored with the passage of time to become gradually old, and to actually profit by the information. The newest information can be suitably chosen via the Internet, the information on INTADISUKU can be updated, and information including the latest information can be acquired by carrying out synchronous reproduction to the common image of a disk.

[0042]Next, when INTADISUKU is a disk about a company and stock quotations, the example is shown in drawing 7 and drawing 8. Stock quotations turn into information with which a result changes and the progress itself predicts a future stock price fluctuation to be by time. Usually, in order to predict a stock price, it is necessary to investigate business information, to investigate the varying state of a stock price, and to put these in a database. Although the latest information can be seen on a screen in a newspaper, radio, and special broadcast under the present circumstances, In order to have edited the information into the information which the user needs, the information from two or more media was edited for user itself, it copied on paper, or data had to be inputted into the personal computer etc., and the burden was size for the televiewer.

[0043]The format (when you need stock quotations especially among business information, it is the format of the stock price) of the conditions which build basic data, such as business information, in INTADISUKU, and need it is set as the INTADISUKU top or the built-in storage parts store of playback equipment, It saves at INTADISUKU or a built-in storage parts store, and a reorganization collection carries out the latest information through the Internet, it is put in a database, synchronous reproduction of the serial latest information can be carried out to said data base information, a reorganization collection can be carried out each time, and it can be considered as the latest information which graph-ized data.

[0044]According to drawing 7 and drawing 8, data is updated on the always needed conditions via the Internet, a reorganization collection carries out and the display screen corresponding to the flow chart which carries out synchronous reproduction, and its flow is illustrated. If playback equipment is loaded with INTADISUKU and it plays, a screen display of the contents B of the disk will be carried out, and they will create the format of the update information (stock price) updated automatically among various information. When according to drawing 7 there is text, such as a company name, the number of employees, and a stock price, and a stock price is taken up, for example as additional information as information which updates and carries out the reorganization collection of the data, the format of the update information of a stock price is created.

[0045]The interval of updating time is set up and automatic updating is started. And the Internet is accessed via a communication line and update information (stock price) is automatically written in said creation format for every updating time. The automatic reorganization collection of the update information is carried out to the existing information till then, and the newest stock price is displayed on playback equipment.

[0046]According to drawing 7, the company deployment field (banking sector information, manufacturing department information, conveyance section information), an employee (managing director number information, employee number information), and achievements and a stock price

(a fiscal year stock price, moon stock price) are out of a company name, the number of employees, and a stock price as text in additional information. There is celebrities' comment as speech information in additional information, and there is a photograph of core products as picture information.

[0047]As mentioned above, in order for the information which the user itself needs to usually have come to hand, various information came to hand, and the user itself was doing the reorganization collection to the needed conditions, but in such a case, the users itself were through and a thing which must check and choose and requires time and effort about eyes at all the information.

[0048]The information from INTADISUKU which the user performed the reorganization collection for the latest information from the Internet in accordance with conditions and a format by setting up conditions and a format beforehand, and built in the common information about a company, By carrying out synchronous reproduction of the latest information which carried out the reorganization collection from the Internet, it can view and listen to the information which the user itself needs.

[0049]Next, when INTADISUKU is a disk about cooking information, the example is shown in drawing 9 and drawing 10. Time is not restricted in 3 minutes, a recipe (material, quantity) is displayed only for a short time, or how to make is omitted, and the details of cookery programs currently broadcast by TV etc. are unclear. Also in INTADISUKU, it is the same and is omitted with restriction of the storage capacity to a disk, etc. in many cases. additional data, such as data, voice data, etc. which are omitted in this way,. By acquiring timing data from the sources of information through the Internet, and making the internal storage part of playback equipment, or the new data write-in part of INTADISUKU memorize these, It becomes possible to see cooking information according to the timing which a user wants to see, or the timing of a actual dish.

[0050]For example, if it doubles at its cooking time, for example, 30 minutes, when there is cooking information which wants to play and make INTADISUKU, If data acquisition of how to carry out synchronous reproduction of the cooking data, and make the additional information which is not included, for example, sauce, for it from the time division is carried out, the reproduced image doubled at the cooking time which he makes will become possible. If speech information is acquired and synchronous reproduction of this is carried out, timing can be doubled and how to cook things with a sound can be made to ****, even if it always is not supervising ***** of a display.

[0051]Since according to drawing 9 and drawing 10 the information which can be added will be displayed on the screen display if INTADISUKU is played, if you wish this, the menu indication of the detailed information of the additional information will be carried out. For example, a dish name, a recipe, cooking time, a cook's order, and a cooking term are displayed as text, The voice guidance of a cook's order, such as the method of seasoning, is displayed as speech information, a cooking photograph, a material photograph, and cooking details photographs (how to cut etc.) are displayed as picture information, and also timing data information is displayed.

[0052]Proper information is retrieved and selected out of said detailed information by which the menu indication was carried out, and the data is downloaded from the Internet in the internal storage part of playback equipment, or the new write-in part of INTADISUKU. Concrete setting out is performed to the timing data information from the Internet, and synchronous reproduction of download data and the information on INTADISUKU is carried out. For example, how to make sauce is adopted additional information, and time to cooking completion is made into additional speech information, and it enables it to **** it by setting up timing data information.

[0053]As mentioned above, it can view and listen to the information which a user wants to see to the timing which a user wants to see by acquiring edit timing data and additional data via the Internet.

[0054]Although the information through the Internet has been explained in the embodiment of this invention as information added to the information on INTADISUKU, If it is the information

which can be specified not only from this Internet information but from INTADISUKU, it can incorporate for the information from any external media of two or more (the usual terrestrial broadcasting, BS, CS, CATV, etc.), and it becomes possible to carry out synchronous reproduction of the incorporated information.

[0055]

[Effect of the Invention]According to this invention, the information which can acquire the information added to interchange disk information from the sources of information of the Internet, and can carry out synchronous reproduction of these information, and is included in interchange disk information can be updated via the Internet, and synchronous reproduction of the latest information can be carried out.

[0056]A format can be created about the information which the user needs among interchange disk information, the information corresponding to this format can be acquired from the Internet, and can be updated, the reorganization collection of the interchange disk information can be carried out, and synchronous reproduction of the latest information can be carried out. Timing data information can be acquired from the Internet with additional information, and synchronous reproduction of the information can also be carried out according to the timing to which a user wants to view and listen.

[0057]And the information from the Internet does not have the whole image only displayed by the display of the playback equipment of INTADISUKU, synchronous reproduction is carried out to the information on INTADISUKU, and its user-friendliness of a user improves. it is also possible for it to divide and be alike on 1 screen of a display, and to specifically carry out simultaneous reproduction of interchange disk information and the Internet information, and it is also possible to carry out simultaneous reproduction only of the part image needed instead of a whole image of Internet information with interchange disk information.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1]It is a figure showing the fundamental composition which the information from INTADISUKU and the information from the Internet are synchronized, and is reproduced.

[Drawing 2]It is a figure showing the flow of the operation in the fundamental composition shown in drawing 1.

[Drawing 3]It is a figure explaining the synchronous reproduction of additional information in case INTADISUKU is a movie disk.

[Drawing 4]It is a flow chart of the synchronous reproduction of additional information in case INTADISUKU is a movie disk.

[Drawing 5]It is a figure explaining the synchronous reproduction of the latest information in case INTADISUKU is a travel advisory disk.

[Drawing 6]It is a flow chart of the synchronous reproduction of the latest information in case INTADISUKU is a travel advisory disk.

[Drawing 7]When INTADISUKU is a company and a stock price disk, it is a figure explaining updating and carrying out the reorganization collection of the data with a necessary condition, and performing synchronous reproduction.

[Drawing 8]When INTADISUKU is a company and a stock price disk, it is a flow chart which updates and carries out the reorganization collection of the data with a necessary condition, and performs synchronous reproduction.

[Drawing 9]When INTADISUKU is a cooking information disk, it is a figure explaining performing synchronous reproduction of additional information according to the synchronous timing which a user wants to see.

[Drawing 10]When INTADISUKU is a cooking information disk, it is a flow chart which performs synchronous reproduction of additional information according to the synchronous timing which a user wants to see.

[Drawing 11]It is a figure showing the rough flow of the information in the case of playing INTADISUKU in conventional technology.

[Description of Notations]

1 INTADISUKU

2 The sources of information on the Internet

3 Playback equipment of INTADISUKU

4 Time-control part

5 External storage regenerating section

6 External storage control section

7 Communication control part

8 Voice control part

9 Display control part

10 Treating part

- 11 Sound reproduction device
- 12 Display
- 13 Communication line
- 14 Synchronous synchronizer
- 15 Retrieval part
- 16 Storage control part
- 17 Internal storage part

[Translation done.]

* NOTICES *

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- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

CORRECTION OR AMENDMENT

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[Written amendment]
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[Amendment 1]
[Document to be Amended]Specification
[Item(s) to be Amended]Claim
[Method of Amendment]Change
[Proposed Amendment]
[Claim(s)]
[Claim 1]An information reproducing device which acquires disk information from a recording disk, and external-media information from external media,
It has image display, and image display and a speech output unit which carry out voice response for text, speech information, and picture information which are outputted from said information reproducing device,

Said external-media information is acquired from said external media via a communication line via access information to external media acquired from said recording disk,
Based on timing data and layout information which were acquired from said disk, said disk information and said acquired external-media information are synchronized, and it compounds, carrying out synchronous reproduction of said disk information and said external-media information -- said image display -- and voice response is carried out

Data synchronization playback equipment characterized by things.

[Claim 2]In the data synchronization playback equipment according to claim 1,

Data synchronization playback equipment, wherein said external-media information acquired from said external media is 1-single-memorized by internal storage part in said information reproducing device, synchronizes with said disk information and is compounded.

[Claim 3]In the data synchronization playback equipment according to claim 1,

Data synchronization playback equipment, wherein said external-media information acquired from said external media is memorized by said recording disk, synchronizes with said disk information and is compounded.

[Claim 4]In one data synchronization playback equipment of the 3 statements from claim 1,

Based on access information of said recording disk, update possible information from external media is acquired, and a menu indication is carried out to said image display and speech output unit,

Data synchronization playback equipment acquiring these information, synchronizing this acquired external-media information and said disk information, and compounding while receiving selection with search about this update possible information and introducing to said external media from update possible information of said menu indication.

[Claim 5]In one of the data synchronization playback equipment according to claim 2 or 3,

A format of update information from external media based on access information of said recording disk, Set it as said internal storage part or a write-in part of said recording disk, and update information for every [from said external media] fixed time is saved in said internal storage part or a write-in part of said recording disk, Data synchronization playback equipment carrying out synchronous reproduction of the latest information by which formatting was carried out to information which carries out a reorganization collection and is acquired from said recording disk for every fixed time.

[Claim 6]In the data synchronization playback equipment according to claim 1 or 2,

Add to text, speech information, and picture information, include timing data information in external-media information from external media based on access information of said recording disk, and by setting out of said timing data information. Data synchronization playback equipment carrying out synchronous composition at disk information from said recording disk, and carrying out synchronous reproduction of said external-media information according to synchronous timing to which a user wants to view and listen.

[Claim 7]In the data synchronization playback equipment according to claim 1 or 2,

Data synchronization playback equipment dividing and carrying out synchronous reproduction of disk information from said recording disk, and the external-media information from said external media all over 1 screen of said image display and speech output unit.

[Claim 8]In the data synchronization playback equipment according to claim 7,

Data synchronization playback equipment, wherein image display of said external-media information chooses a proper part image of the whole images from said external media.

[Claim 9]A recording disk which contained a part only for reading which reads information written in beforehand, and an access part which has the access information to external media,

External media by which access directions are carried out at said recording disk,

An information reproducing device which inputs information from said recording disk, and inputs information from said external media,

It is the data synchronization playback equipment provided with image display, and image display

and a speech output unit which carry out voice response for text, speech information, and picture information from said information reproducing device,

An internal storage part in said information reproducing device is made to memorize information from said external media.

Based on timing data and a layout signal which are memorized by said recording disk, information acquired from external media in said internal storage part is synchronized with information acquired from said recording disk, and it is made to compound.

using as basic data information acquired from said recording disk, and carrying out synchronous reproduction of both these data by using as additional data information acquired from said external media -- image display -- and voice response is carried out

Data synchronization playback equipment characterized by things.

[Claim 10]A recording disk which contained a part only for reading which reads information written in beforehand, a write-in part which can write in information newly, and an access part which has the access information to external media,

External media by which access directions are carried out at said recording disk,

An information reproducing device which inputs information from said recording disk, and inputs information from external media,

It is the data synchronization playback equipment provided with image display, and image display and a speech output unit which carry out voice response for text, speech information, and picture information from said information reproducing device,

A write-in part of said recording disk is made to memorize information from said external media.

Information acquired from said external media of write-in circles is synchronized with information acquired from said recording disk based on timing data and a layout signal which are memorized by said recording disk, and it is made to compound.

using as basic data information acquired from said recording disk, and carrying out synchronous reproduction of both these data by using as additional data information acquired from said external media -- image display -- and voice response is carried out

Data synchronization playback equipment characterized by things.

[The amendment 2]

[Document to be Amended]Specification

[Item(s) to be Amended]0011

[Method of Amendment]Change

[Proposed Amendment]

[0011]The purpose of this invention is to acquire the information added to the information on the recording disk distributed beforehand from the sources of information of the Internet, and to provide the data synchronization playback equipment which can carry out synchronous reproduction of these information.

[Amendment 3]

[Document to be Amended]Specification

[Item(s) to be Amended]0012

[Method of Amendment]Deletion

[Amendment 4]

[Document to be Amended]Specification

[Item(s) to be Amended]0013

[Method of Amendment]Deletion

[Amendment 5]

[Document to be Amended]Specification

[Item(s) to be Amended]0015

[Method of Amendment]Change

[Proposed Amendment]

[0015]An information reproducing device which acquires the disk information from a recording

disk, and the external-media information from external media, The text, speech information, and picture information which are outputted from said information reproducing device Image display, and image display and a speech output unit which carry out voice response, Via the access information to the external media acquired from the preparation and said recording disk, Said external-media information is acquired from said external media via a communication line, synchronizing said disk information and said acquired external-media information, compounding based on the timing data and layout information which were acquired from said disk, and carrying out synchronous reproduction of said disk information and said external-media information — said image display — and voice response is carried out.

[Amendment 6]

[Document to be Amended]Specification

[Item(s) to be Amended]0016

[Method of Amendment]Deletion

[Amendment 7]

[Document to be Amended]Specification

[Item(s) to be Amended]0055

[Method of Amendment]Change

[Proposed Amendment]

[0055]

[Effect of the Invention]According to this invention, the information which can acquire the information added to recording disk information from the sources of information of the Internet, and can carry out synchronous reproduction of these information, and is included in recording disk information can be updated via the Internet, and synchronous reproduction of the latest information can be carried out.

[Amendment 8]

[Document to be Amended]Specification

[Item(s) to be Amended]0056

[Method of Amendment]Change

[Proposed Amendment]

[0056]A format can be created about the information which the user needs among recording disk information, the information corresponding to this format can be acquired from the Internet, and can be updated, the reorganization collection of the recording disk information can be carried out, and synchronous reproduction of the latest information can be carried out. Timing data information can be acquired from the Internet with additional information, and synchronous reproduction of the information can also be carried out according to the timing to which a user wants to view and listen.

[Amendment 9]

[Document to be Amended]Specification

[Item(s) to be Amended]0057

[Method of Amendment]Change

[Proposed Amendment]

[0057]And the information from the Internet does not have the whole image only displayed by the display of the playback equipment of a recording disk, synchronous reproduction is carried out to the information on a recording disk, and its user-friendliness of a user improves. it is also possible for it to divide and be alike on 1 screen of a display, and to specifically carry out simultaneous reproduction of interchange disk information and the Internet information, and it is also possible to carry out simultaneous reproduction only of the part image needed instead of a whole image of Internet information with recording disk information.

[Translation done.]